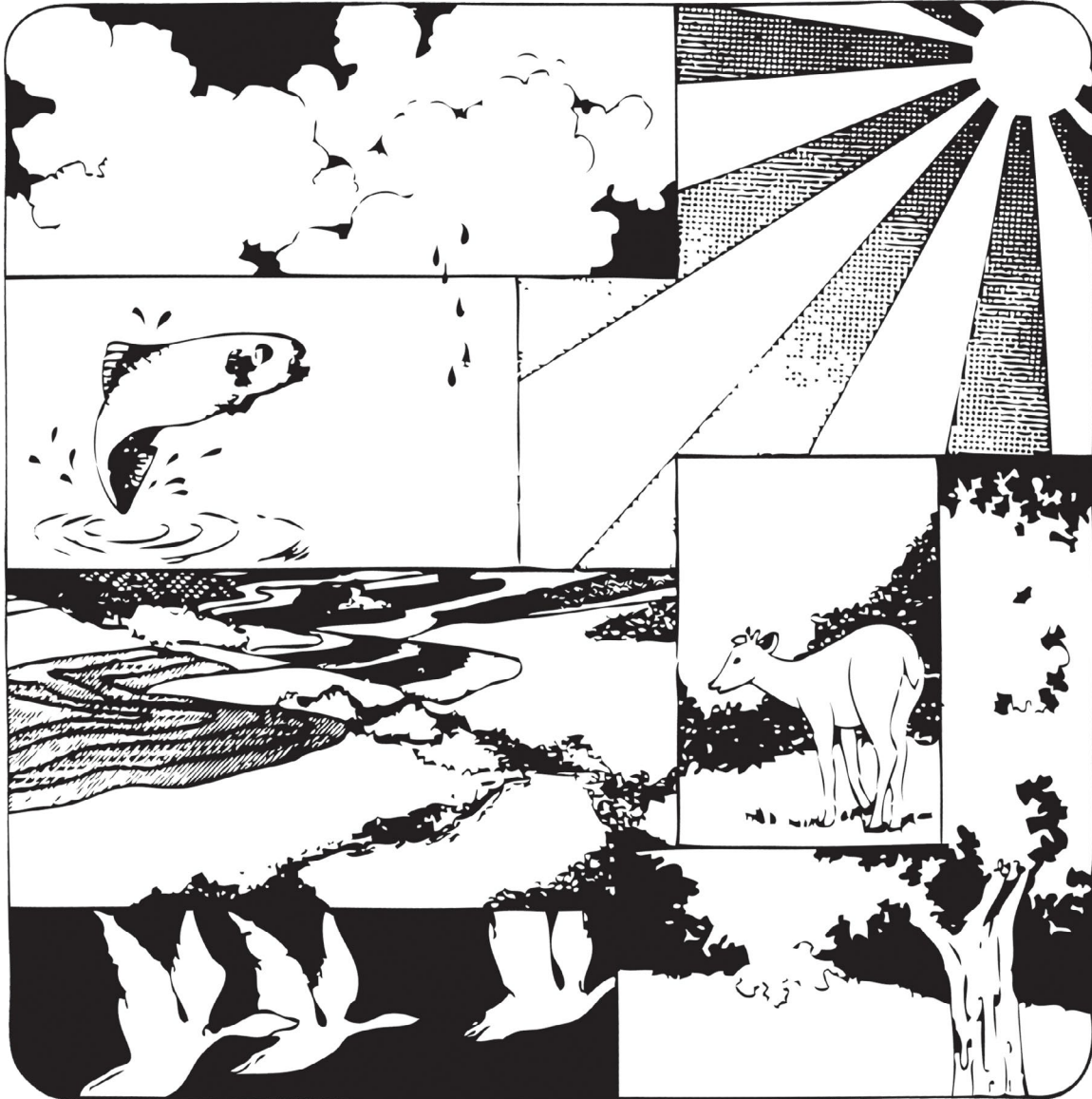


RESOURCE CONSERVATION WORKSHOP

June 24 - June 29, 2018

NC STATE UNIVERSITY, RALEIGH, NC



NC STATE
UNIVERSITY

NORTH CAROLINA DIVISION OF
SOIL & WATER
CONSERVATION

55th Annual
RESOURCE CONSERVATION WORKSHOP
North Carolina State University
June 24 – June 29, 2018

Sponsored by:

N.C. Association of Soil and Water Conservation Districts

NC Department of Agriculture and Consumer Services
Division of Soil and Water Conservation

N.C. Soil and Water Conservation Commission

N.C. Association of Soil and Water Conservation Districts

Hugh Hammond Bennett Chapter
Soil and Water Conservation Society

Department of Crop and Soil Science
North Carolina State University

Continuing & Professional Education
North Carolina State University

Phone Contacts during the Workshop:

Please call either of the numbers below anytime (day or night) if needed, throughout the workshop. Also be sure to exchange numbers with your counselor. If your family cannot contact you directly and has a need to transmit an urgent message to you, they are welcome to use the numbers below.

(704) 880-0768 – Ralston James, RCW Coordinator, NC Division Soil and Water.

(919) 886-3424 – Liz Driscoll, RCW Coordinator, NCSU Department of Crop and Soil Sciences



RESOURCE CONSERVATION WORKSHOP

2018 PROGRAM OVERVIEW

Sunday, June 24: Registration and Orientation

Registration at Sullivan Residence Hall, NC State University

Monday, June 25: Soil Science

Lake Wheeler Research Farm; Soils Field Lab, and Williams Hall, NCSU campus

NC State University, Department of Crop and Soil Sciences

Soil is one of our most important natural resources. Explore basic soil properties and soil mapping, further your understanding of soil microbiology and nutrient management, investigate soil erosion and sediment control and determine ways to use the soil to manage waste.

Tuesday, June 26: Water, Wildlife, Recreation & Fish Management

Falls Lake State Recreation Area

US Army Corps of Engineers, NC Division of Parks and Recreation, & NC Wildlife Resources Commission

A healthy environment offers a space for wildlife and flora to flourish as well as providing us with important ecosystem services— drinking water, recreation spaces, food production, waste management (decomposition to on-site waste removal) among others. Explore ways to manage wildlife and fish while balancing human needs.

Wednesday, June 27: Forestry and Forest Management

Clemmons Educational State Forest (CESF), Clayton

NC Department of Agriculture and Consumer Services, NC Forest Service

Discover forest fundamentals, from understanding why a healthy forest is important to the environment and how to manage a forest including, controlling forest fires, identifying trees and determining their usefulness. Learn why forests are key to good water quality.

Thursday, June 28: Soil and Water

NC State University, Lake Wheeler Research Farm; Bill Fike Teaching Garden and the Beef Unit

North Carolina Soil and Water Conservation Districts, Wake, Franklin, Guilford, Johnston, and Orange

Delve into ways to manage the land in an agricultural setting through surveying and using GPS and applying that information to implement best management practices that conserve the soil. Use your knowledge to explore the impacts that different land use has on a local watershed.

Friday, June 29: Examination & Luncheon

NC State McKimmon Center



Sunday, June 24: **REGISTRATION AND ORIENTATION**

- 3:00 - 5:00 p.m. **Registration** at Sullivan Residence Hall
- 4:00 p.m. **Counselor meeting** (Location TBD, likely a first floor lounge)
- 5:15 p.m. **Dinner** (Lee Hall Picnic Pavillion)
- Meet in the courtyard outside Sullivan Hall at 5:00 pm to walk to dinner
 - Informal meal and orientation. Dinner will be served at the Lee Hall Picnic Pavillion
 - The meal is arranged through the excellent assistance and planning of Mr. Shedrick Samuels. His office is in the McKimmon Center; and his phone number is shown at the back of this Program, along with the names of many persons who assist with this annual Workshop.
 - After the meal, we will walk across the Brickyard for an Orientation Session in the Williams Hall Auditorium, Room 1404.
- 6:15 p.m. **Welcome** (Williams Hall Annex Auditorium, Room 1404)
- Greetings from the Hugh Hammond Bennett Chapter, Soil and Water Conservation Society (Mr. Ralston James)
 - Welcome on behalf of the Department of Crop and Soil Sciences, NCSU (Ms. Liz Driscoll)
- 6:30 p.m. **Overview of Workshop Program** (Ms. Liz Driscoll)
- 6:45 p.m. **Collective Agreements** (Ms. Liz Driscoll)
- Safety Concerns at NCSU (Mr. Ralston James)
 - Suggestions on behalf of Counselors (Mr. Ralston James)
- 7:00 p.m. Team-Building + Ice Breaker Games (Ms. Liz Driscoll, Counselors, Brickyard)
- 7:30 p.m. **Get to know your counselor** and suite mates. (The time is yours to plan.)
- All students must return to your dorm with a counselor. Please follow the instructions of your own counselor regarding any safety concerns. Be sure to communicate with your counselor about any special needs and obey the Workshop requirement for being in your room on time with "lights out."

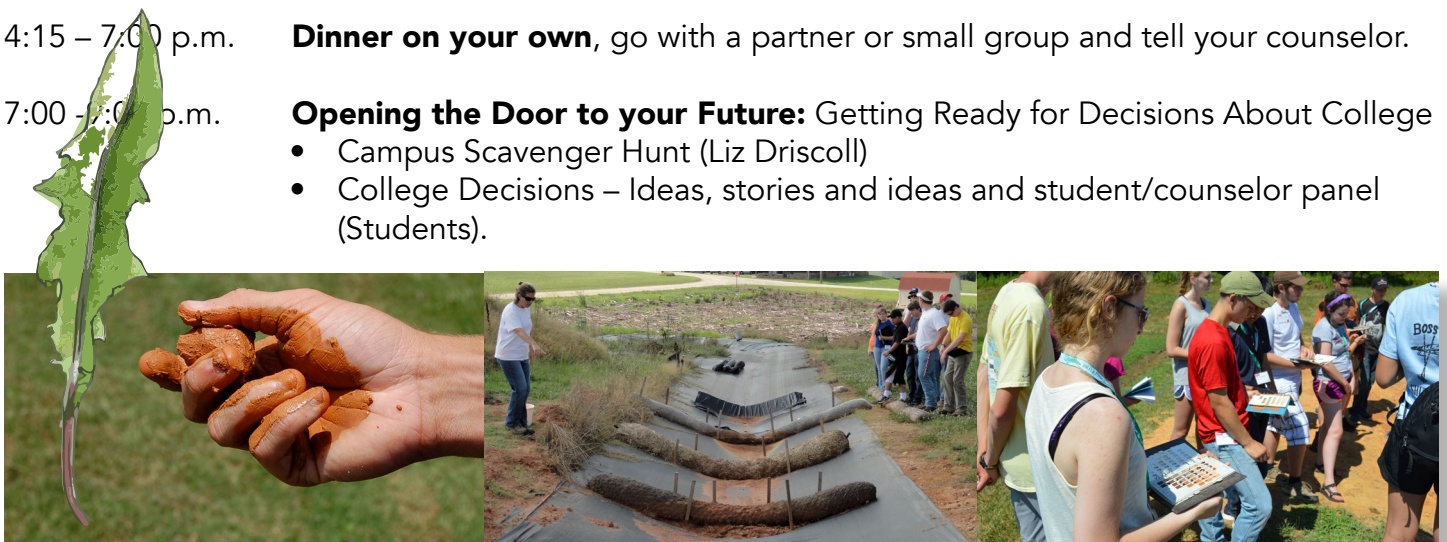


Monday, June 25: THE SOIL RESOURCE

NC State University - Department of Crop and Soil Sciences
Lake Wheeler Soils Field Lab & Williams Hall

Explore basic soil properties and soil mapping, investigate soil erosion and sediment control and determine ways to use the soil to manage waste. Soils are also vital for controlling contaminants that can threaten human health and students will engage in activities to learn about how soil processes and management strategies can protect drinking-water and food quality.

- 7:45 am Depart the dorms to walk to Williams Hall
- 8:00 – 8:45 a.m. **Welcome to the Department of Crop and Soil Sciences** (Williams Hall Annex Auditorium, 1404) and **Introduction to the Soil Resource**
Dr. Deanna Osmond, Associate Department Head, Crop and Soil Sciences
- 8:45 - 9:15 a.m. Busses and vans depart from Williams, travel to Lake Wheeler Research Farm
- 9:15 -12:00 p.m. Students will divide into three groups and rotate sequentially to each station for 45 minutes in each session. (9:15-10:00 a.m., 10:15-11:00 a.m., & 11:15-12:00 p.m.)
- **Onsite Waste Systems** (Liz Driscoll and Dr. Erik Severson)
 - **UAV use in Agriculture** (Mr. Rob Austin)
 - **Erosion, Sediment and Turbidity Control** (Ms. Jamie Luther and Mr. Chris Niewoehner)
- 12:00 - 1:30 p.m. **Load vans and busses to travel to campus.**
- **Lunch on your own** along Hillsborough St. (Chipotle, Jimmy Johns, Bruegger's Bagels, NY Pizza, Subway, Zaxby's, Jersey Mike's, Mitch's, Jasmin, etc.)
- 1:30 p.m. Meet in Williams Hall Annex Auditorium (Room 1404) for afternoon instructions
- 1:45 - 4:10 p.m. Students will divide back into the morning groups and rotate sequentially to each station for 45 minutes (1:45-2:30 p.m., 2:35- 3:20 p.m., & 3:25 - 4:10 p.m.)
- **Soil Chemical Properties** (Ms. Sarah Dinger, Room 2302)
 - **Soil Ecology and Nutrient Mangement** (Ms. Rachel Berube, Room 2417)
 - **Forage and Grasslands Conservation** (Ms. Steph Sosinski, Room 2125)
- 4:15 – 7:00 p.m. **Dinner on your own**, go with a partner or small group and tell your counselor.
- 7:00 – 7:30 p.m. **Opening the Door to your Future:** Getting Ready for Decisions About College
- Campus Scavenger Hunt (Liz Driscoll)
 - College Decisions – Ideas, stories and ideas and student/counselor panel (Students).



Tuesday, June 27 - **WATER, WILDLIFE, RECREATION & FISH MANAGEMENT**

US Army Corps of Engineers, NC Division of Parks and Recreation, & NC Wildlife Resources Commission, NC Department of the Environment and Natural Resources, Division of Water Resources
Falls Lake State Recreation Area

A healthy environment offers a space for wildlife and flora to flourish as well as providing us with important ecosystem services– drinking water, recreation spaces, food production, waste management (decomposition to on-site waste removal) among others. Explore ways to manage wildlife and fish while balancing human needs.

7:45 a.m. Vans and Busses depart in front of Fountain Dining Hall, travel to Falls Lake

8:45 – 9:00 a.m. Students will be split into 4 groups for the trip:

- Group 1 and 2 arrive at Sandling Beach at Falls Lake (Group 1 – Shelter #6 + Group 2 – Shelter #7)
- Group 3 and 4 arrive at Falls Dam and Visitor Center

Group 1

9:00 – 10:00 a.m. **Fisheries Management and Wildlife Enforcement** at Shelter #6
(Ms. Jessica Baumann, Fisheries Biologist, Mr. Kelly Brantley, Mr. Brent Ward, and Ms. Hannah Shivley, Enforcement Division, N.C. Wildlife Resources Commission)

10:00 – 10:15 a.m. Water Break and Walk to Shelter #7

10:15 – 11:30 a.m. **Wildlife Hike** at Shelter #7
(Ms. Crystal Lloyd; Park Rangers, Falls Lake State Recreation Area Division of Parks & Recreation | NC State Parks)

11:30 - 12:30 p.m. Lunch

12:30 – 1:00 p.m. Travel to Falls Dam and Visitor Center

1:00 – 2:00 p.m. **Falls Dam Tour** (Ms. Stacey Henderson, U.S. Army Corps of Engineers)

2:00 – 3:00 p.m. **Pollinators** (Ms. Liz Driscoll, Ms. Sarah Dinger, N.C. State University)

Group 2

9:00 – 10:15 a.m. **Wildlife Hike** at Shelter #7

10:15 – 10:30 a.m. Water Break and Walk to Shelter #7

10:30 – 11:30 a.m. **Fisheries** at Shelter #6

11:30 - 12:30 p.m. Lunch

12:30 – 1:00 p.m. Travel to Falls Dam and Visitor Center

1:00 – 2:00 p.m. **Pollinators**

2:00 – 3:00 p.m. **Falls Dam Tour**



Tuesday, June 27 - **WATER, WILDLIFE, RECREATION & FISH MANAGEMENT**

Group 3

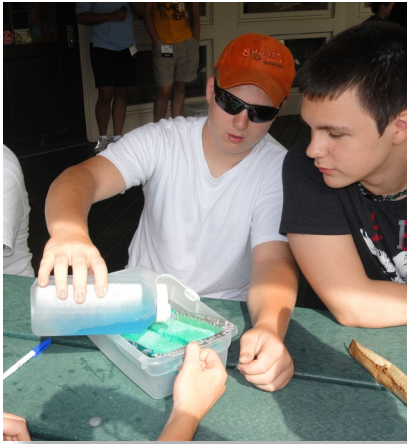
9:00 – 10:00 a.m. **Pollinators**
10:00 – 11:00 a.m. **Falls Dam Tour**
11:00 – 11:30 p.m. Travel to Sandling Beach
11:30 – 12:30 p.m. Lunch
12:30 – 1:30 p.m. **Fisheries** at Shelter #6
1:30 – 1:45 p.m. Water Break and Walk to Shelter #7
1:45 – 3:00 p.m. **Wildlife Hike** at Shelter #7

Group 4

9:00 – 10:00 a.m. **Falls Dam Tour**
10:00 – 11:00 a.m. **Pollinators**
11:00 – 11:30 a.m. Travel to Sandling Beach
11:30 – 12:30 p.m. Lunch
12:30 – 1:45 p.m. **Wildlife Hike** at Shelter #7
1:45 – 2:00 p.m. Water Break and Walk to Shelter #7
2:00 – 3:00 p.m. **Fisheries** at Shelter #6

3:00 – 6:00 p.m. All groups gather for **cookout and swimming at Sandling Beach at Shelter 6**

6:00 p.m. Travel back to NCSU



Wednesday, June 27: **FORESTRY AND FOREST MANAGEMENT**

North Carolina Department of Agriculture and Consumer Services, NC Forest Service
Clemmons Educational State Forest (CESF), Clayton

Discover forest fundamentals, from understanding why a healthy forest is important to the environment and how to manage a forest including, controlling forest fires, identifying trees and determining their usefulness. Learn why forests are key to good water quality.

- | | |
|-------------------|--|
| 7:45 a.m. | Vans and Busses depart by Fountain Dining Hall, travel to CESF |
| 8:30 - 8:40 a.m. | Introduction to Clemmons Forest , Mr. Kevin Pittman |
| 8:40 -10:00 a.m. | Our Environment + the Healthy Forest <i>Group A</i> , Dr. Kelly Oten
Forest Fire Control <i>Group B</i> , Mr. Adam Huffman, Mr. Josh Chandler |
| 10:00 -10:10 a.m. | Break |
| 10:10-11:30 a.m. | Forest Fire Control <i>Group A</i> , Chandler/Huffman
Our Environment and the Healthy Forest <i>Group B</i> , Kelly Oten |
| 11:30-12:15 p.m. | Lunch (meal you have chosen on Sunday will be delivered) |
| 12:15-1:30 p.m. | Tree Identification <i>Group A</i> , Mr. Kevin Pittman
Forest Measurement <i>Group B</i> , Mr. Michael Huffman |
| 1:30-2:45 p.m. | Forest Measurements <i>Group A</i> , Mr. Michael Huffman
Tree Identification <i>Group B</i> , Mr. Kevin Pittmann |
| 2:45-3:00 p.m. | Break |
| 3:00-3:40 p.m. | Water Quality <i>Group A</i> , Bill Swartley
Forest Management <i>Group B</i> , Bill Pickens |
| 3:40-4:20 p.m. | Forest Management <i>Group A</i> , Bill Picken
Water Quality <i>Group B</i> , Bill Swartley |
| 4:20-4:50 p.m. | Return to NCSU Campus |

(Wednesday evening
continued on the next
page)



... WEDNESDAY, JUNE 27TH CONTINUED

5:00 - 6:45 p.m. Dinner on your own (with a partner or group, tell your counselor)

7:30 p.m.

Examining Future Career Possibilities (Meet in 2215 Williams Hall)

- Organized by Ms. Sandra Weitzel of the NC Division of Soil and Water for students to explore careers in natural resource conservation. The groups will rotate through three short presentations with ample time for questions and answers.

Presenters:

- Jason Doll, Senior Scientist/Project Manager, Moffatt & Nichol
- NCDENR Division of Parks and Recreation



Thursday, June 28: **SOIL AND WATER**

North Carolina Soil and Water Conservation Districts: Guilford, Franklin, Johnston, Orange and Wake
NC State University's Bill Fike Teaching Garden, Beef Unit (Mid Pines Rd), and Williams Hall

Delve into ways to manage the land in an agricultural setting through best management practices, conservation planning, surveying, agroecology, and rotational grazing. Use your knowledge to explore the impacts that different land use has on a local watershed and decide how to best manage agricultural lands.

7:45 am Vans and Busses Depart by Fountain Dining Hall and Travel to NCSU's Lake Wheeler Research Farm + Department of Crop and Soil Science's Bill Fike Teaching Garden

8:15 – 8:30 a.m. **Welcome and explain today's activities**

8:30 – 11:00 a.m. Divide into 3 groups- one at each station; spend 40 minutes at each station, rotate at the sound of horn

- Station A: **Best Management Practices** (Gail Hughes, Millie Langley & Susan Woodard)
- Station B: **Conservation Measurements** (Charlie Bass, Jennifer Brooks, Quinton Cooper and Eddie Culberson)
- Station C: **Conservation Planning** (Teresa Furr and Emily Nash)

11:00 – 11:25 a.m. Travel to Lunch

11:25 -12:25 p.m. Lunch at On the Oval at NC State's Centennial Campus (Bathroom break)

12:25 - 12:45 p.m. Travel to NC State's Beef Unit (Mid Pines Rd. Pasture Location)

12:45 – 1:45 p.m. **Rotational Grazing and Other Conservation Practices** (Sam Ingram)

1:45 - 2:05 p.m. Travel to Williams Hall at NC State's Main Campus

2:05 – 4:45 p.m. **Practice Scenarios** (Rooms 1404, 2302, 2312, 2104, 2125)

Divide into small groups and work through practice scenarios to create a conservation plan and map of possible BMP's. All groups come back together afterwards and small groups are selected to present their plans.



... THURSDAY, JUNE 28TH CONTINUED

4:45 – 5:00 p.m. Final word and collect surveys.

5:00 - 6:30 p.m. **Informal Pizza Party** at Pullen Park, a city of Raleigh public park. There will be Frisbee, football and other games to toss around.

Evening

STUDY TIME! THIS IS A GOOD TIME TO REVIEW NOTES AND STUDY.

We hope you do plan to do some thinking and reviewing in preparation for Friday's exam. Plan to take advantage of the public lounge areas in and around Sullivan Residence Hall to review the material presented during the Workshop and compare ideas.





Friday, June 29- **EXAMINATION & LUNCHEON** At the NC State McKimmon Center

- Until 7:00 a.m. Breakfast, study for test, relax
- 7:15 - 7:45 a.m. Travel by vans to McKimmon Center for exam
- 7:45 - 9:30 a.m. The exam starts at 7:45 AM.

Record your answers on the computer-scored "bubble sheet" provided to each student. Questions on the final page require short answers, or a few sentences or short paragraphs. These questions are not intended to test your writing skills, but rather to learn your honest answers.

- About 9:15 a.m. When you finish taking your exam, board the vans to return to the dormitory. The vans will be continually shuttling back and forth between McKimmon and Sullivan

- 9:30 - 11:00 a.m. Pack your bags; prepare to leave your room; check out of Sullivan Hall.

When you're ready to leave Sullivan, travel by vans (with your luggage) to the McKimmon Center for the Luncheon and Awards Program. You will be told where you may place your luggage during the program.

Meet your parents/guest at the McKimmon Center if they will be attending the program. If you have no one attending the Luncheon and Awards Program, plan to meet your source of transportation at the McKimmon Center. Parking at the McKimmon Center is free to anyone participating in a program there; no parking pass is needed.

- 11:00 – 12:00 p.m. **Invocation, Light buffet meal**
Bryan Evans, Executive Director, NC Association of Soil and Water Conservation Districts

- 11:45 – 12:15 p.m. **Introduction of special guests in attendance**
- Request comments by a representative of the Workshop participants
 - Request comments by a representative of the counselors

- 12:15 – 1:00 p.m. **Presentations of Awards**
- Presentation of the Award Winners and presentation of awards

- 1:30 p.m. Leave for home

WINNERS OF CASH AWARDS AND SCHOLARSHIPS

5th place score (\$50 cash award)

Winner: _____

4th place score (\$75 cash award)

Winner: _____

3rd place score (\$100 cash award)

Winner: _____

2nd place score (\$100 cash award and \$275 college scholarship)

Winner: _____

1st place score (\$100 cash award and \$500 college scholarship)

Winner: _____

S. Grady Lane Award (\$100 cash award and \$500 college scholarship)

Winner: _____

District Employees' Association Award \$1,000 college scholarship)

Winner: _____



STAFF AND INSTRUCTORS

NC DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES (NCDA&CS)

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NC DEPARTMENT OF NATURAL AND CULTURAL RESOURCES

N.C. Division of Parks and Recreation (www.ncparks.gov)

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Mr. Sean Higgins Lead Interpretation & Education Program Manager;
(919) 715-0047 / sean.higgins@ncdenr.gov

Ms. Crystal Lloyd Park Ranger; Falls Lake State Recreation (919) 676-1027 / crystal.lloyd@ncparks.gov
Mr. Greg Orcutt Park Ranger; Falls Lake State Recreation Area (919) 676-1027 / greg.orcutt@ncparks.gov

N.C. WILDLIFE RESOURCES COMMISSION (www.ncwildlife.org)

Ms. Jessica Baumann Fisheries Biologist, (336) 270-3746 / jessica.baumann@ncwildlife.org
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Mr. Brent Ward Master Officer, Enforcement Division, Raleigh NC (919) 661-9616
Ms. Hannah Shively Senior Officer, Enforcement Officer, Wake County 919-698-1037

U.S. ARMY, CORPS OF ENGINEERS

Ms. Stacey Henderson Park Ranger, Volunteer & Community Outreach Coordinator, Falls Lake
(919) 846-9332, ext. 2232 / Stacey.L.Henderson@usace.army.mil

DURHAM SOIL AND WATER CONSERVATION DISTRICT (<http://www.dconc.gov/swcd>)

Jennifer Brooks Natural Resources Coordinator, 919-560-0558 / jbrooks@dconc.gov
Eddie Culberson Director, 919-560-0558 / eculberson@dconc.gov

FRANKLIN SOIL AND WATER CONSERVATION DISTRICT (www.franklincountync.us/services/soil-and-water-conservation/)

Mr. Charlie Bass NC Ag Cost Share Specialist, (919) 496-3137 x 3 / Charles.Bass@nc.nacdnet.net
Mr. Quinton Cooper Soil Conservationist, (919) 496-3137 x 3 / quinton.cooper@nc.nacdnet.net

GUILFORD SOIL AND WATER CONSERVATION DISTRICT (<http://www.myguilford.com/planning-and-development/soil-and-water-conservation/>)

Ms. Millie Langley Soil Conservationist, (336) 641-2440 / mlangle@myguilford.com

JOHNSTON COUNTY SOIL AND WATER CONSERVATION DISTRICT (www.johnstonnc.com)

Ms. Susan Woodard District Education Specialist; (919) 934-7156, Ext. 3 / susan.woodard@johnstonnc.com

ORANGE COUNTY SOIL AND WATER CONSERVATION DISTRICT (www.orangecountync.gov)

Ms. Gail Hughes Soil Conservationist, (919) 245-2753 / ghughes@orangecountync.gov

WAKE COUNTY SOIL AND WATER CONSERVATION DISTRICT (www.wakegov.com/swcd)

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Ms. Teresa Furr Natural Resource Conservationist, (919) 250-1050 / teresa.furr@wakegov.com
Ms. Emily Nash Natural Resource Conservationist, (919) 250-1050 / emily.nash@wakegov.com
Ms. Jessica Perrin Conservation Specialist; (919) 250-1053 / jessica.perrin@wakegov.com

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Sydney Singleton	(336) 479-8338 / Shsingleton2016@gmail.com

* Note: The people above will stay on campus all week.

DRIVERS AND RCW SUPPORT

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Louise Hart	(919) 239-9610 Driver
Dottie Jones	(919) 827-2019 Driver
Ken Parks	(919) 920-4532 Driver

Sandra Weitzel	(919) 971-4648 Safety
David Williams	(919) 280-7196 Safety

